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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,482	07/24/2003	Jon O. Reynolds	ITW7510.052	1481
33647	7590 06/14/2005		EXAM	INER
ZIOLKOWSKI PATENT SOLUTIONS GROUP, SC (ITW) 14135 NORTH CEDARBURG ROAD MEQUON, WI 53097			SHAW, CLIFFORD C	
			ART UNIT	PAPER NUMBER
•			1725	
			DATE MAILED: 06/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/604,482	REYNOLDS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Clifford C. Shaw	1725				
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum status - Failure to reply within the set or extended period for reply we have reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, however, may a renication. days, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MON fill, by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	lon .					
	<u> </u>					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-25 is/are pending in the ap	Claim(s) <u>1-25</u> is/are pending in the application.					
4a) Of the above claim(s) is/are	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.	Claim(s) 1-25 is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restricti	on and/or election requirement.					
Application Papers						
9) The specification is objected to by the	Examiner.					
10)⊠ The drawing(s) filed on 23 July 2004 is	The drawing(s) filed on 23 July 2004 is/are: a) accepted or b) □ objected to by the Examiner.					
Applicant may not request that any object		•				
Replacement drawing sheet(s) including to		• •				
11) The oath or declaration is objected to		• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for	or foreign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority de						
	ocuments have been received in A	pplication No				
	f the priority documents have been					
application from the Internation	al Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action	for a list of the certified copies not	received.				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTG) 		ummary (PTO-413))/Mail Date ,				
3) Information Disclosure Statement(s) (PTO-1449 or Pi Paper No(s)/Mail Date	· · · · · · · · · · · · · · · · · · ·	formal Patent Application (PTO-152)				

Detailed Action

1). The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2.) Claims 1-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Independent claim 1 has been amended to specify that the transmitter transmits a signal "at a frequency within an extremely low radio frequency (ELF) range". Independent claims 13, 19, and 25 have been amended to include limitations directed to a low frequency signal. These new limitations in the amended claims directed to extremely low frequency signals or to low frequency signals constitute new matter not supported by the original specification. The original specification makes no mention of low frequency signals used to transmit control data in the manner claimed. In the original specification, the transmitter associated with the welding control transmits a single pulse each time the human operator depresses the torch trigger. This single pulse encodes control information in its pulse width and its pulse height; the range of permissible pulse widths has been chosen to accommodate the degrading effects of weld cable impedance (see paragraph 0029). There is no mention of a low frequency, and especially of an extremely low radio frequency, to transmit control data in the original specification.

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3.) Applicant's remarks in the amendment filed on 4/25/2005 have been given careful consideration, but are not persuasive of patentability. The amended claims are considered to contain new matter as discussed above. Applicant is advised that if his response to the new matter rejection is to simply remove the new matter, the claims will be subject to the rejections based on prior art as set forth in previous Office actions.

Any inquiry concerning this communication should be directed to Clifford C Shaw at telephone number 571-272-1182. The examiner can normally be reached on Monday through Friday of the first week of the pay period and on Tuesday through Friday of the second week of the pay period.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Thomas G. Dunn, can be reached at 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Clifford C Shaw Primary Examiner Art Unit 1725

June 12, 2005